M-430

SERVICE MANUAL

Ver 1.0 1999. 02

US Model
AEP Model
E Model

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MZ-430-99

SPECIFICATIONS

Tape
MICROCASSETTE™ (normal position type)
Recording system
2-track 1-channel monaural
Speaker
Approx. 3.6 cm (1 7/16 in.) dia.
Tape speed
2.4 cm/s (15/16 ips), 1.2 cm/s (15/32 ips)
Frequency range
250 - 4,000 Hz (with TAPE SPEED switch at 2.4 cm/s)
Output
Earphone jack (minijack) for 8 - 300 ohms earphone
Power output (at 10% harmonic distortion)
160 mW
Power requirements
3 V DC batteries size AA (R6) × 2/External DC 3 V power sources
Dimensions (w/h/d)
Approx. 62.2 × 121.5 × 24.3 mm (2 1/2 × 4 7/8 × 31/32 in.) incl. projecting parts and controls
Mass
Approx. 125 g (4.5 oz.)

Supplied accessory
Microcassette tape MC-30 (1)

Design and specifications are subject to change without notice.

MICROCASSETTE™-CORDER

MICROFILM

SONY®

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Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

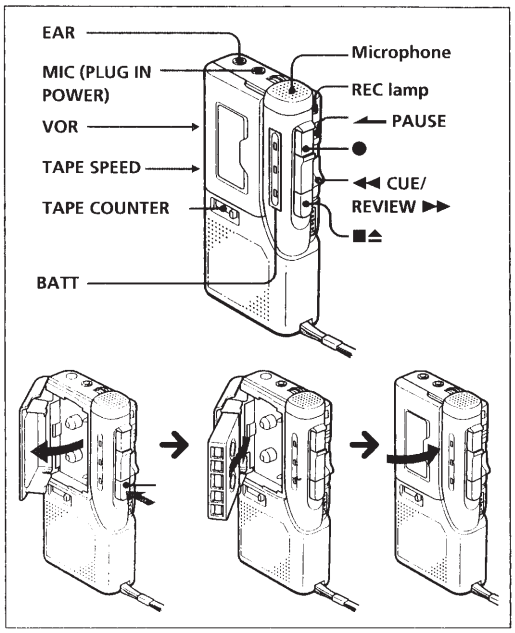
Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

This section is extracted from instruction manual.

Recording

Make sure that nothing is connected to MIC (M-635VK/630V only).



1 Press the reset button of the TAPE COUNTER (M-635VK/630V/535V/530V only).
2 Press ■⏏ and insert a standard microcassette with the side to start recording facing the lid.
3 Select the desired tape speed.
2.4 cm for optimum sound (recommended for normal use): A 30-minute recording can be made using both sides of the MC-30 microcassette.
1.2 cm for longer recording time: A 60-minute recording can be made using both sides of the MC-30 microcassette.
4 Set VOR to H, L or OFF (M-635VK/630V/535V/530V only).
If you set VOR to H or L, the unit automatically starts recording the sound and pauses when there is no sound (you can save tapes and batteries).
H: To record at meeting or in a quiet and/or spacious place.
L: To record for dictation or in a noisy place.
When the sound is not loud enough, set it to OFF, or the unit may not start recording.
5 Press ●.
◀ is pressed simultaneously and recording starts. While the tape runs, the REC lamp or REC/BATT lamp lights and flashes depending on the strength of the sound (M-635VK/630V/535V/530V only).
Recording level is fixed.

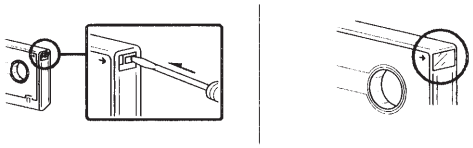
To	Press or slide
Stop recording	■⏏
Start recording during playback	● during playback (the unit becomes in the recording mode)
Review the portion just recorded	Push up ◀◀CUE/▶▶REVIEW toward ▶▶REVIEW during the recording. Release the button at the point to start playback.
Pause recording	Slide ▬PAUSE in the direction of the arrow. The REC/BATT (M-535V/530V), BATT (M-430) or REC lamp (M-635VK/630V) goes off.
Take out a cassette	■⏏

Note
Select the 2.4 cm tape speed for recording, if you play back the recorded tape with another unit. Otherwise, the sound quality may be changed.

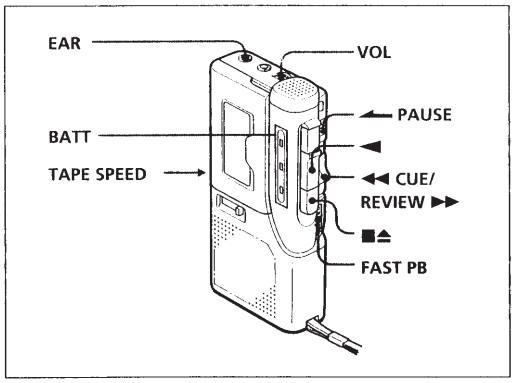
Notes on VOR (Voice Operated Recording) (M-635VK/630V/535V/530V only)
- The VOR system depends on the environmental conditions. If you cannot get the desired results, set VOR to OFF.
- When you use the system in a noisy place, the unit will stay in the recording mode. If the sound is too soft, on the contrary, the unif will not start recording. Set VOR to H (high) or L (low) depending on the conditions.

To monitor the sound
Connect an earphone (not supplied) to EAR jack. The monitor volume cannot be adjusted by VOL.

To prevent a cassette from being accidentally recorded over
Break out and remove the cassette tabs. To reuse the cassette for recording, cover the tab hole with adhesive tape.



Playing a Tape



1 Insert a cassette with the side to start playing facing the lid.
2 Select the tape speed to the same speed as that used for recording.
3 Press ◀.
4 Adjust the volume.

To	Press or slide
Stop playback/stop fast forward or rewind*	■⏏
Pause playback	Slide ▬PAUSE in the direction of the arrow. The REC/BATT (M-535V/530V) or BATT (M-430) lamp, or BATT lamps (M-635VK/630V) go off.
Fast forward	Slide ◀◀CUE/▶▶REVIEW toward ◀◀CUE during stop.
Rewind	Slide ◀◀CUE/▶▶REVIEW toward ▶▶REVIEW during stop.
Search forward during playback (CUE)	Keep ◀◀CUE/▶▶REVIEW pushed down during playback and release it at the point you want.
Search backward during playback (REVIEW)	Keep ◀◀CUE/▶▶REVIEW pushed up during playback and release it at the point you want.

* If you leave the unit after the tape has been wound or rewound, the batteries will be consumed rapidly. Be sure to depress ■⏏.

If you plug in headphones (not supplied) to the EAR jack, you will get monaural output from both left and right channels.

To increase the playback speed (M-635VK/630V only)
Slide the FAST PB switch in the direction of the arrow. The playback speed will be increased.
To return to the original speed, slide the FAST PB switch to the original position.

At the end of the tape
In the recording or playback mode, the tape stops at the end of the tape and the locked buttons will be released automatically (Automatic shut-off mechanism).
After fast forward or rewind, be sure to set ◀◀CUE/▶▶REVIEW back to the center.

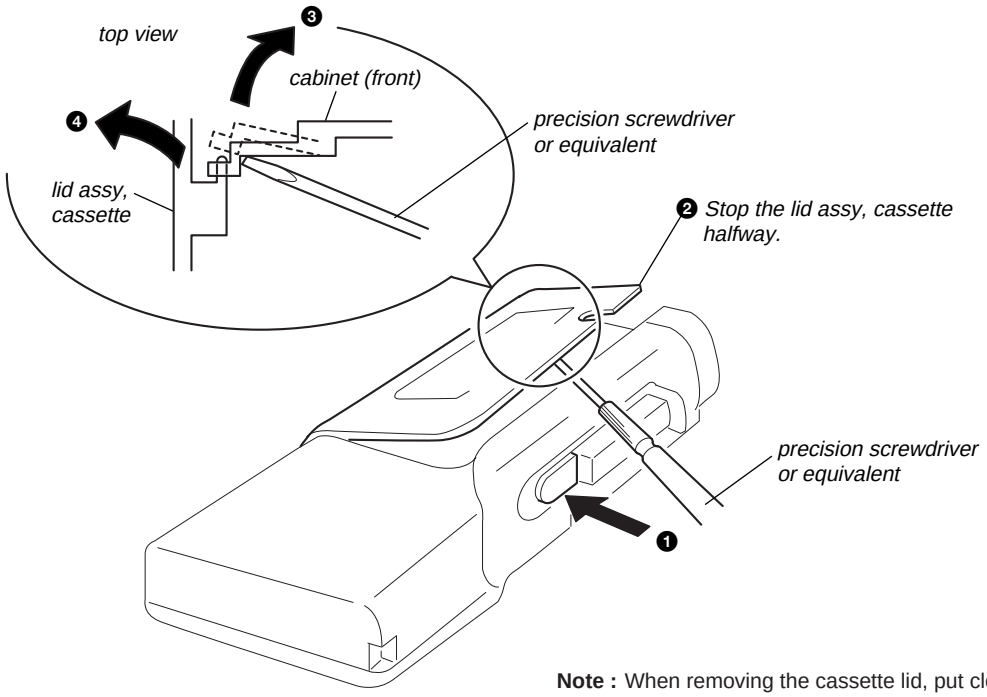
SECTION 2
DISASSEMBLY

• The equipment can be removed using the following procedure.

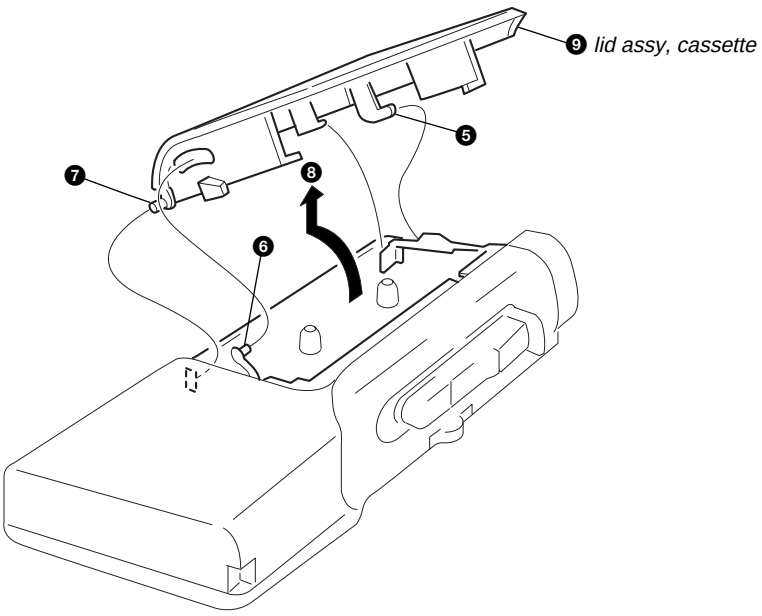
Set → Lid assy, cassette → Cabinet (rear) assy → Main board → Mechanism deck → Head, ceramic
Set → Lid, battery case

Note : Follow the disassembly procedure in the numerical order given.

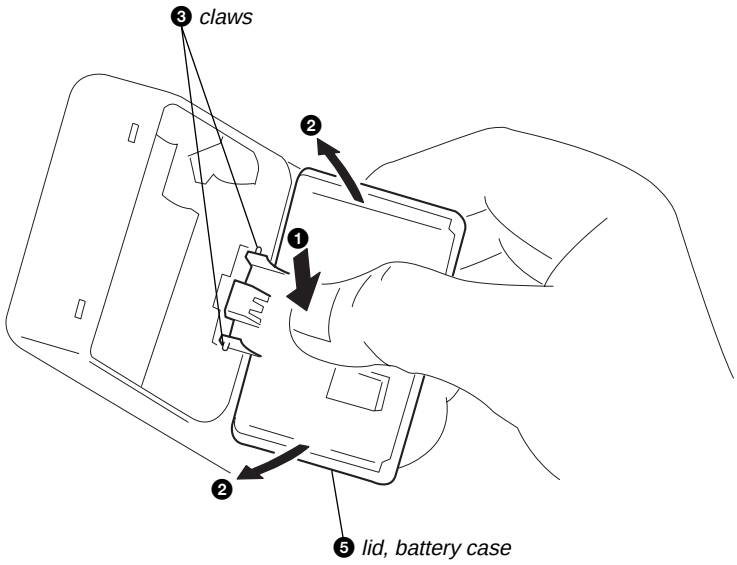
2-1. LID ASSY, CASSETTE



Note : When removing the cassette lid, put cloth on the end of a screwdriver or use a polyacetal driver to avoid damage to the cabinet.

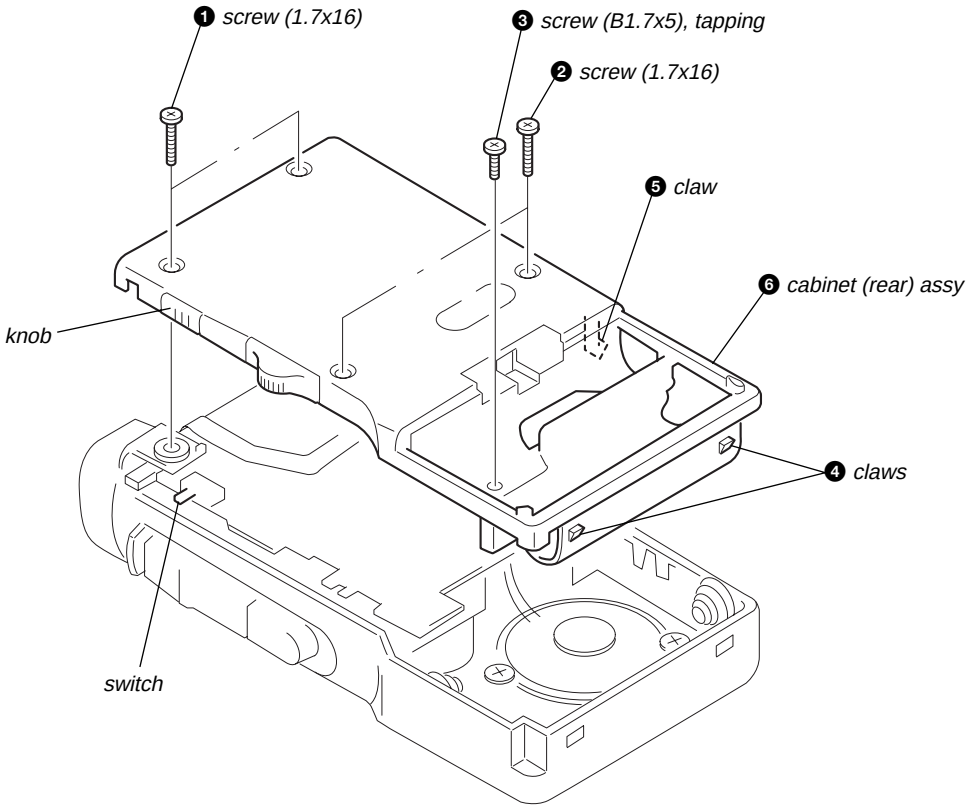


2-2. LID, BATTERY CASE

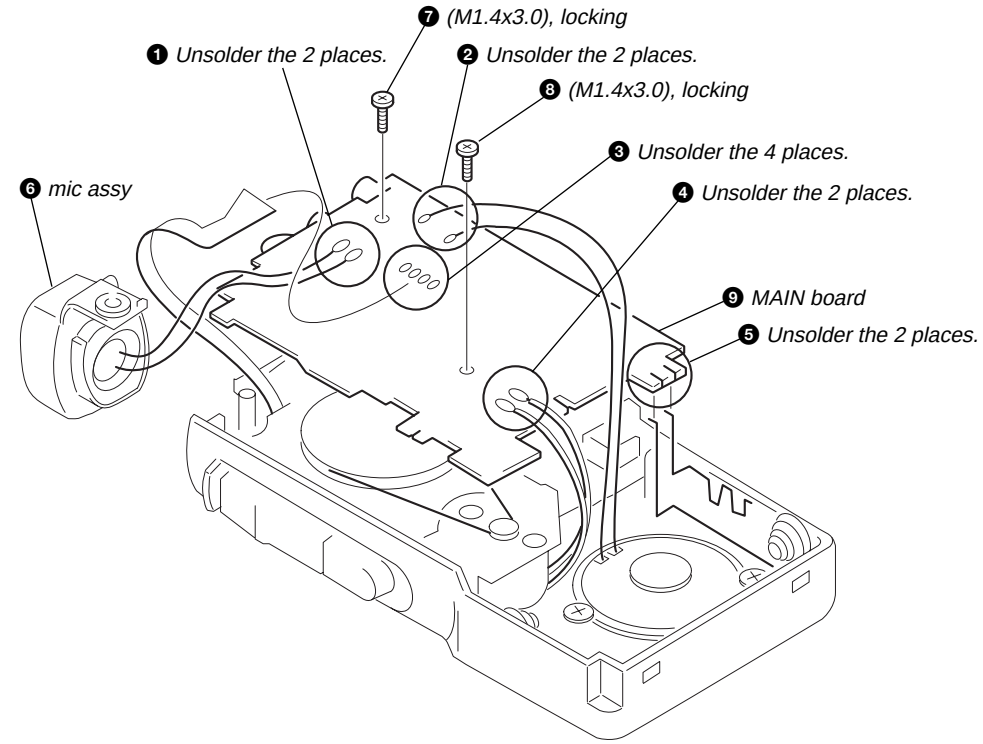


2-3. CABINET (REAR) ASSY

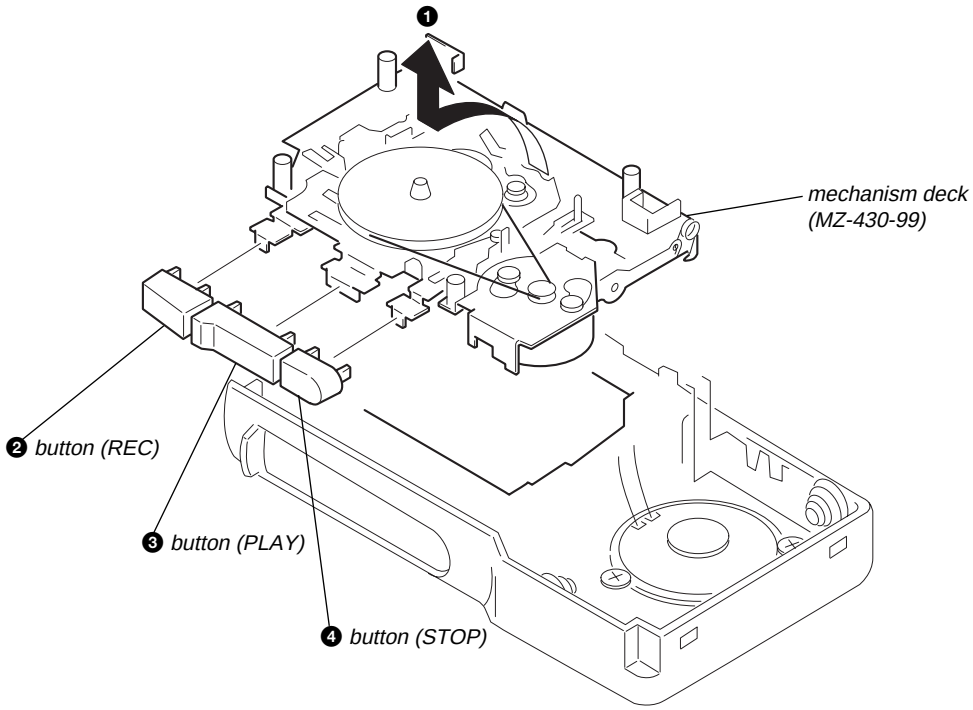
Note : When installing, fit the knobs and switches.



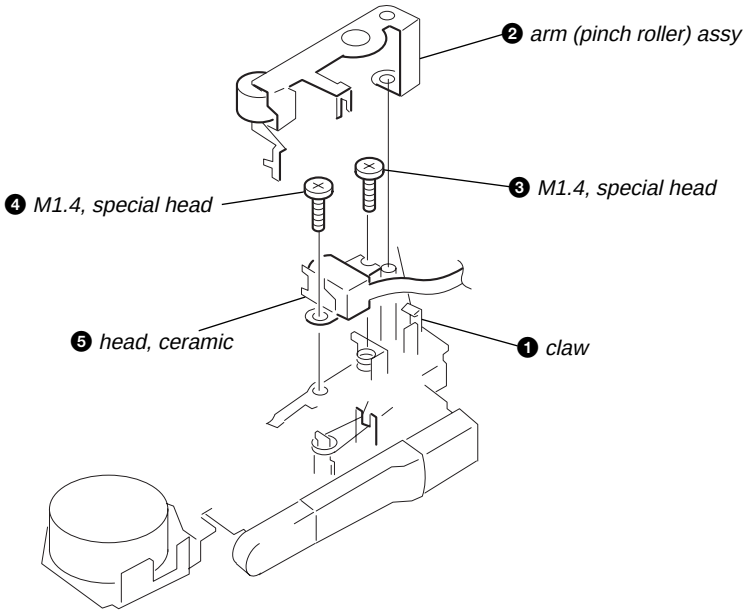
2-4. MAIN BOARD



2-5. MACHANISM DECK



2-6. HEAD, CERAMIC



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback/erase head pinch roller
   rubber belts capstan
2. Demagnetize the record/playback/erase head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
   Power supply voltage : 3 Vdc
   TAPE SPEED switch : 2.4cm/s

Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-103M	5 – 13 g • cm (0.07 – 0.180 oz • inch)
Fast Forward	CQ-201M	more than 30 g • cm (more than 0.42 oz • inch)
Rewind	CQ-201M	more than 30 g • cm (more than 0.42 oz • inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403M	more than 20 g (more than 0.28 oz)

SECTION 4
ELECTRICAL ADJUSTMENTS

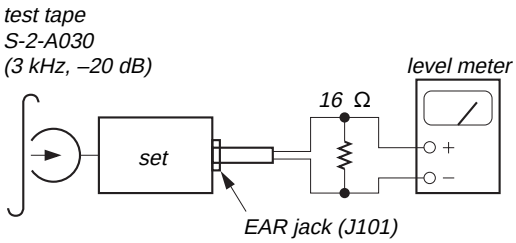
Test Tape

Type	Signal	Used for	Tape Speed (cm/s)
S-2-A030	3 kHz, – 20 dB	Head Azimuth Adjustment	2.4
WS-24	3 kHz, – 10 dB	Tape Speed Adjustment	2.4
WS-12			1.2

Record/Playback/Erase Head Azimuth Adjustment

Setting:
VOL control : mechanical mid
TAPE SPEED switch : 2.4cm/s

Procedure:
1. Mode : Playback

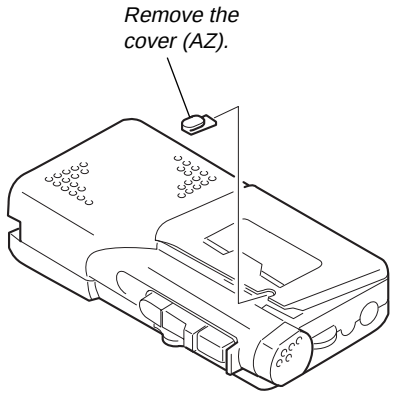


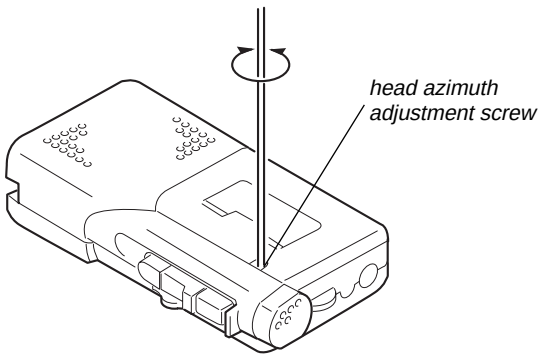
2. Turn the adjustment screw to obtain the maximum reading on level meter.

Note: Several peaks may appear, but the maximum.

Adjustment Location :

First remove the cover (AZ).





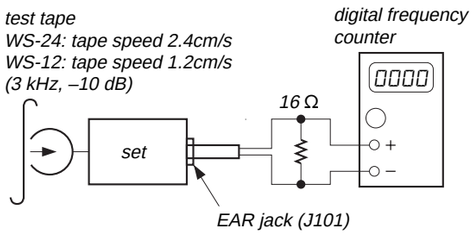
Tape Speed Adjustment

Setting:

VOL control : mechanical mid

Procedure:

- Reform 2.4 cm/s speed adjustment before 1.2 cm/s speed adjustment mode : playback



1. Tape Speed : 2.4 cm/s
   Playback WS-24 (tape center part) and adjust RV602 so that reading on the digital frequency counter becomes 3,000 Hz.

2. Tape Speed : 1.2 cm/s
   Playback WS-12 (tape center part) and adjust RV601 so that reading on the digital frequency counter becomes 3,000 Hz.

Specification Value:

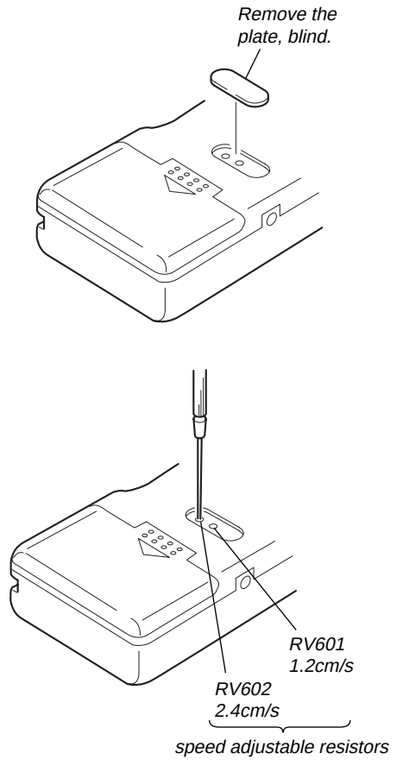
Tape Speed	Frequency counter
2.4 cm/s	2,880 to 3,120 Hz
1.2 cm/s	2,850 to 3,150 Hz

Frequency difference between the beginning and the end of the tape should be within ±0.5%.

2.4 cm/s (15 Hz)
1.2 cm/s (15 Hz)

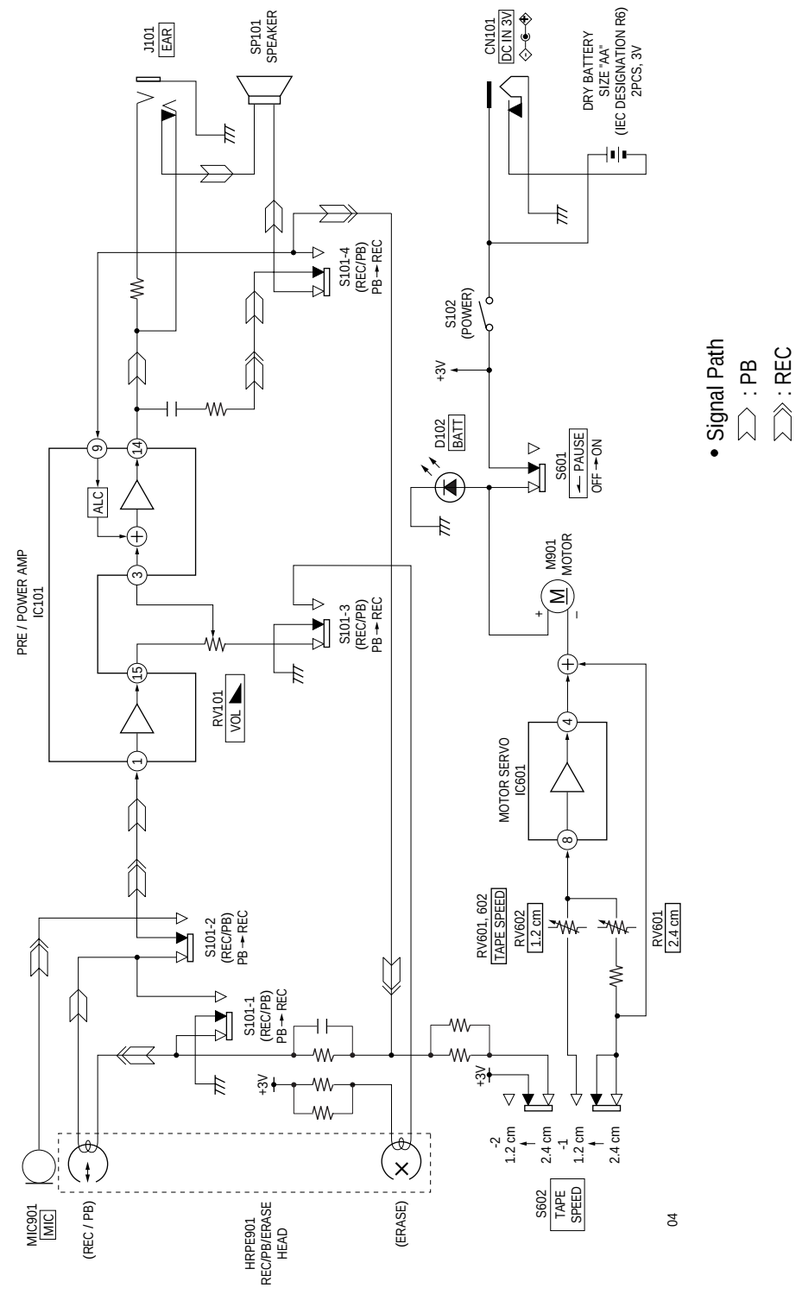
Adjustment Location :

First remove the plate, blind.

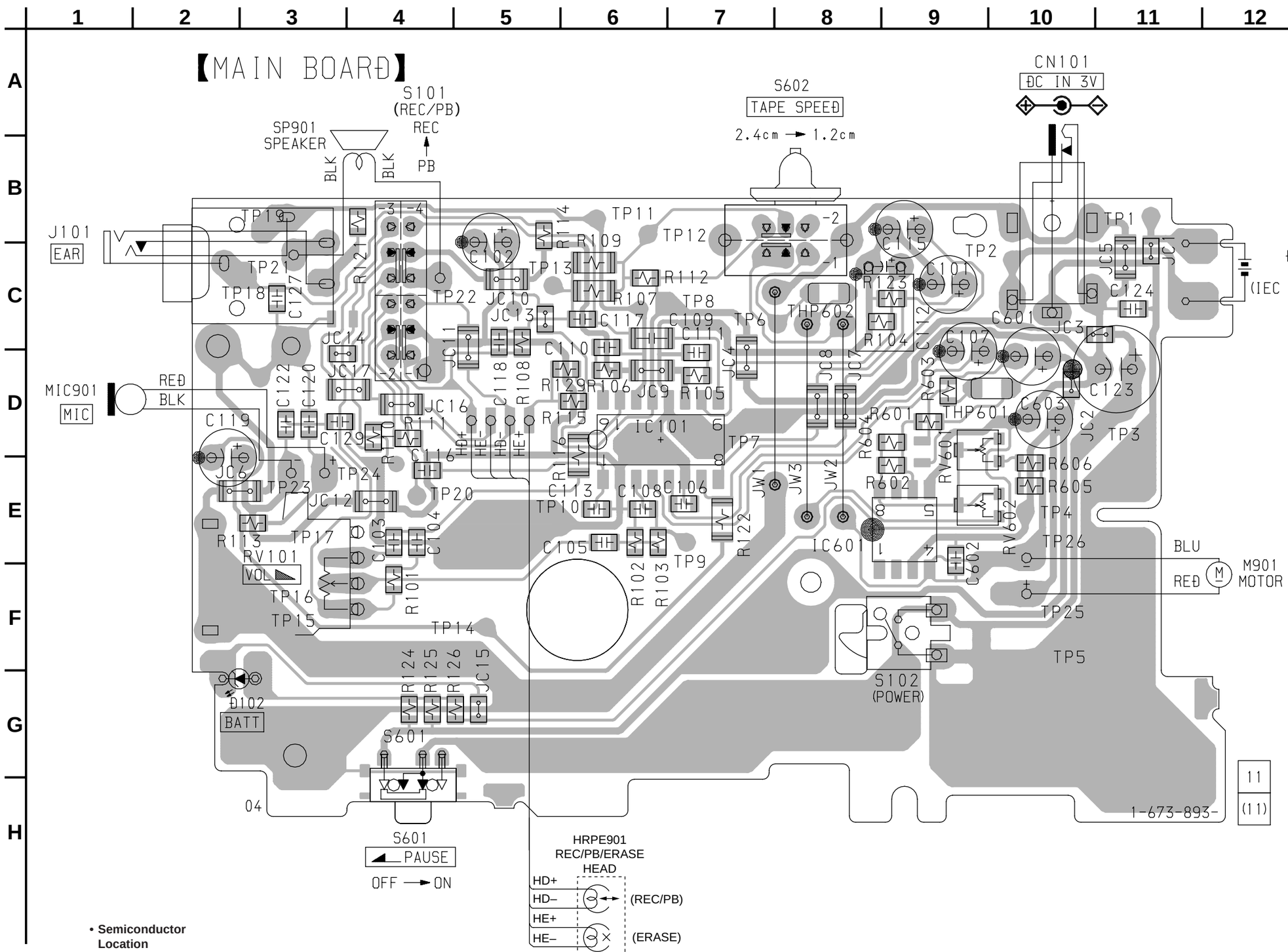


SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



5-2. PRINTED WIRING BOARD

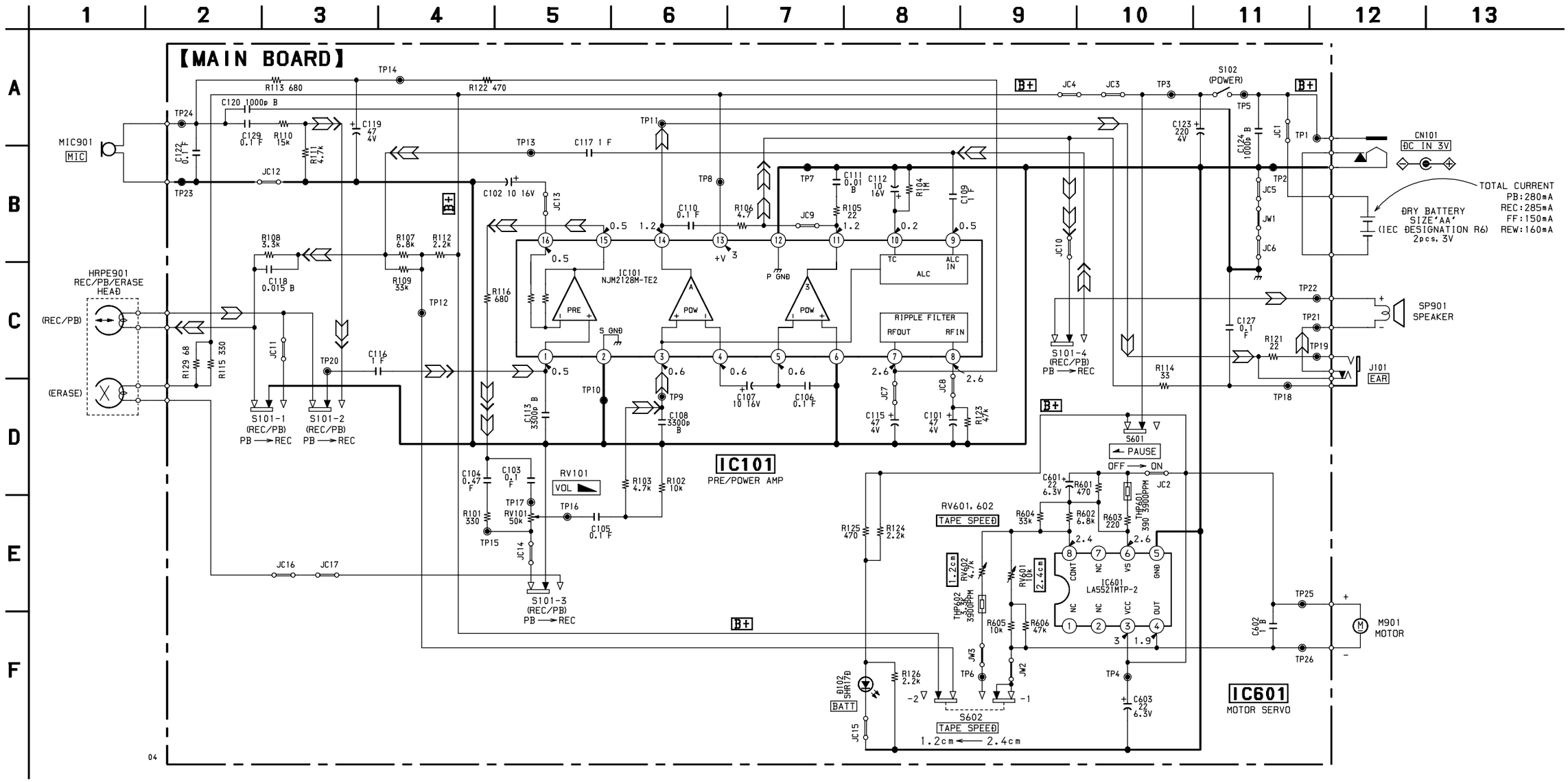


• **Semiconductor Location**

Ref. No.	Location
D102	G-3
IC101	D-6
IC601	E-9

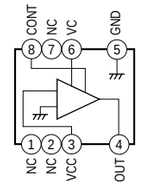
Note:
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

5-3. SCHEMATIC DIAGRAM



• IC Block Diagram

IC601 LA5521MTP-2



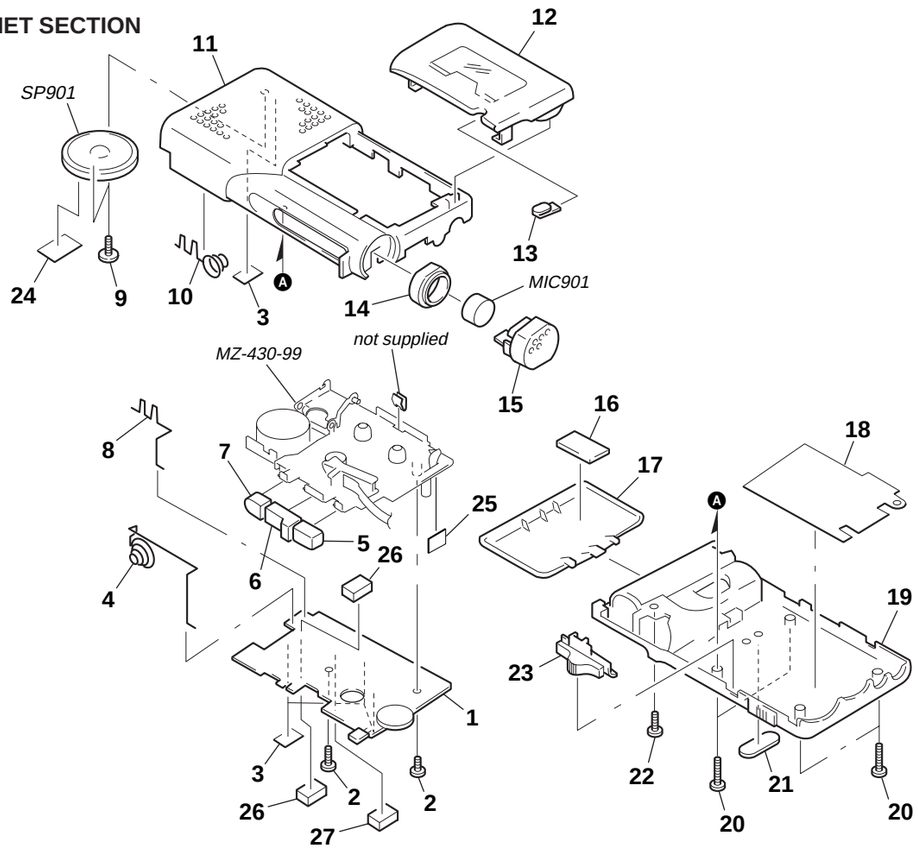
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal condition.
  no mark : PB/REC
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB
  ▷▷ : REC

SECTION 6
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.
- Abbreviation
  EE : East European model
  MX : Mexican model
  E : Indication of country of origin
  1E : No indication of country of origin

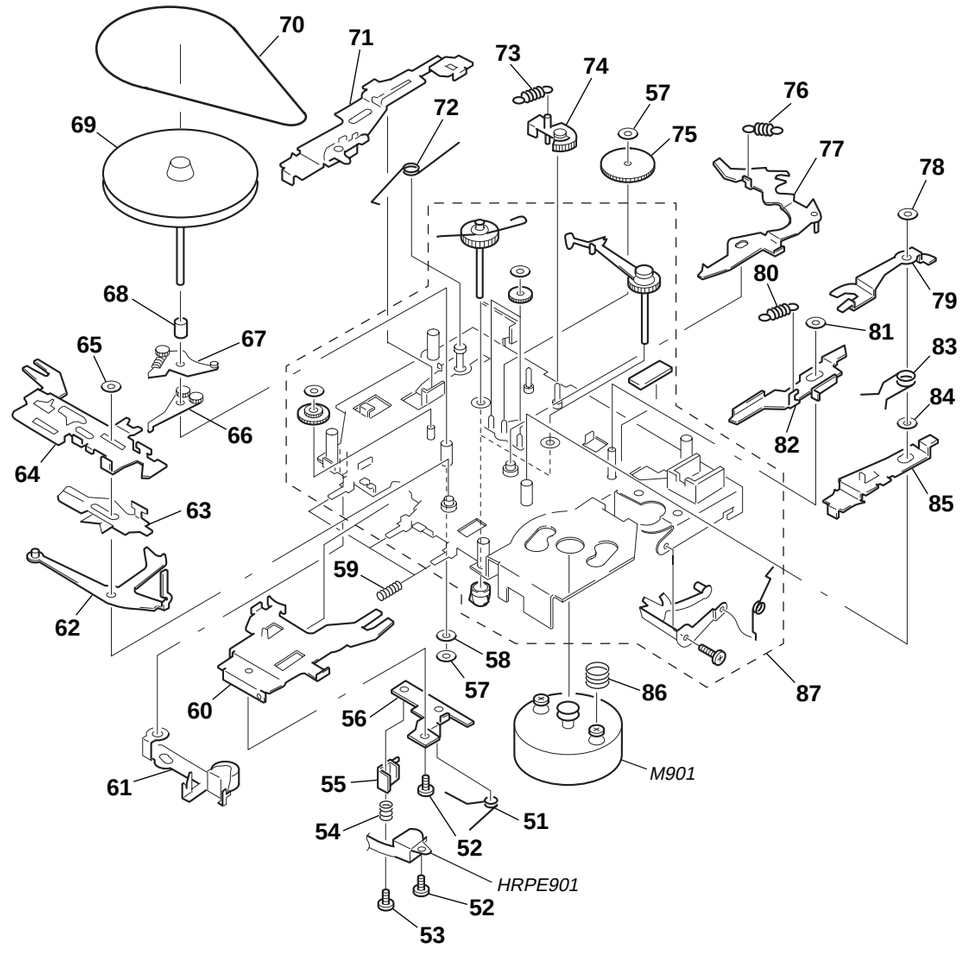
6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	A-3021-216-A	MAIN BOARD, COMPLETE	
2	3-704-197-31	SCREW (M1.4X3.0), LOCKING	
3	3-831-441-99	SPACER, KNOB	
4	3-034-687-01	TERMINAL (-), BATTERY	
5	3-031-376-01	BUTTON (REC)	
6	3-031-375-01	BUTTON (PLAY)	
7	3-031-374-01	BUTTON (STOP)	
8	3-034-686-01	TERMINAL (+), BATTERY	
9	3-034-792-01	SCREW (2X2.5), TAPPING (B)	
10	3-010-503-01	SPRING (B), BATTERY COIL	
11	3-031-368-01	CABINET (FRONT) (BLACK) (US,AEP,EE,E,MX)	
11	3-031-368-11	CABINET (FRONT) (BLACK) (1E)	
11	3-031-368-31	CABINET (FRONT) (SILVER) (AEP,E)	
11	3-031-368-41	CABINET (FRONT) (SILVER) (1E)	
12	X-3377-237-1	LID ASSY, CASSETTE (SILVER) (AEP,E,1E)	
12	X-3377-254-1	LID ASSY, CASSETTE (BLACK) (US,AEP,EE,E,1E,MX)	
* 13	3-033-185-01	COVER (AZ) (BLACK) (US,AEP,EE,E,1E,MX)	
* 13	3-033-185-11	COVER (AZ) (SILVER) (AEP,E,1E)	
14	3-031-382-01	CUSHION (MIC)	
15	3-031-372-01	CASE, MICROPHONE	
* 16	3-914-930-01	CUSHION (BATTERY CASE LID)	

Ref. No.	Part No.	Description	Remark
17	3-031-371-01	LID, BATTERY CASE (BLACK) (US,AEP,EE,E,1E,MX)	
17	3-031-371-11	LID, BATTERY CASE (SILVER) (AEP,E,1E)	
18	3-037-004-01	PLATE, SHIELD	
19	X-3377-316-1	CABINET (REAR) ASSY (BLACK) (US,AEP,EE,E,1E,MX)	
19	X-3377-317-1	CABINET (REAR) ASSY (SILVER) (AEP,E,1E)	
20	3-035-255-01	SCREW (1.7X16) (BLACK) (US,AEP,EE,E,1E,MX)	
20	3-035-255-11	SCREW (1.7X16) (SILVER) (AEP,E,1E)	
21	3-358-363-41	PLATE, BLIND (BLACK) (US,AEP,EE,E,1E,MX)	
21	3-358-363-61	PLATE, BLIND (SILVER) (AEP,E,1E)	
22	3-318-203-71	SCREW (B1.7X5), TAPPING (BLACK) (US,AEP,EE,E,1E,MX)	
22	3-318-203-72	SCREW (B1.7X5), TAPPING (SILVER) (AEP,E,1E)	
23	3-031-381-01	KNOB (FR) (BLACK) (US,AEP,EE,E,1E,MX)	
23	3-031-381-11	KNOB (FR) (SILVER) (AEP,E,1E)	
24	3-037-193-01	CUSHION (SP)	
25	3-036-882-01	SPEAKER (JACK)	
26	3-037-146-01	CUSHION (A)	
27	3-037-147-01	CUSHION (B)	
MIC901	1-542-386-11	MICROPHONE, ELECTRET CONDENSER (MIC)	
SP901	1-505-384-11	SPEAKER (3.6cm)	

6-2. MACHANISM DECK SECTION (MZ-430-99)



Ref. No.	Part No.	Description	Remark
51	3-028-965-01	SPRING (PINCH ARM), TORSION	
52	3-703-816-31	SCREW (M1.4), SPECIAL HEAD	
53	3-703-816-73	SCREW (M1.4), SPECIAL HEAD	
54	3-028-960-01	SPRING (AZIMUTH), COMPRESSION	
55	3-028-909-01	GUIDE (N), TAPE	
* 56	3-029-640-01	LEVER (PLAY.OW)	
57	3-331-007-21	WASHER	
58	3-350-989-01	WASHER	
59	3-028-961-01	SPRING (BUTTON), COMPRESSION	
60	3-028-924-01	LEVER (PLAY)	
61	X-3376-235-1	ARM (PINCH ROLLER) ASSY	
62	3-028-929-01	LEVER (SW)	
63	3-028-940-01	LEVER (SRS)	
64	3-028-938-01	LEVER (SLIDE)	
65	3-578-224-00	WASHER	
66	X-3376-227-1	LEVER (F/R) ASSY	
67	X-3376-228-1	LEVER (TU) ASSY	
68	3-029-634-01	BEARING	
69	X-3376-231-1	FLYWHEEL ASSY	
70	3-377-420-11	BELT	

Ref. No.	Part No.	Description	Remark
71	X-3376-224-1	LEVER (REC) ASSY	
72	3-029-641-01	SPRING, TORSION	
73	3-028-957-01	SPRING (CAM GEAR), TENSION	
74	3-028-966-01	GEAR (S-OFF-OW), CAM	
75	X-3376-230-1	LIMITER ASSY	
76	3-028-955-01	SPRING (LOCK), TENSION	
77	X-3377-535-1	LEVER (LOCK) ASSY	
78	4-992-239-01	WASHER (A)	
* 79	3-028-967-01	LEVER (PAUSE RELEASE)	
80	3-028-954-01	SPRING (SW LEVER), TENSION	
81	3-321-483-11	RING, RETAINING	
82	3-028-928-01	LEVER (EJECT)	
83	3-028-964-01	SPRING (SLIDER), TORSION	
84	4-926-562-01	WASHER, STOPPER	
85	3-028-927-01	LEVER (STOP)	
86	3-028-917-01	SPRING (GROUND), COMPRESSION	
87	X-3376-223-1	CHASSIS (COMP) ASSY	
HRPE901	1-500-593-11	HEAD, CERAMIC (REC/PB/ERASE)	
M901	1-698-533-11	MOTOR, DC (CAPSTAN/REEL) (including PULLEY)	

SECTION 7
ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

- Abbreviation
  EE : East European model
  MX : Mexican model
  E : Indication of country of origin
  1E : No indication of country of origin

Ref. No.	Part No.	Description			Remark
	A-3021-216-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-104-400-21	ELECT	47uF	20%	4V
C102	1-104-396-11	ELECT	10uF	20%	16V
C103	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C104	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C105	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C106	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C107	1-104-396-11	ELECT	10uF	20%	16V
C108	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C109	1-162-638-11	CERAMIC CHIP	1uF		16V
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C112	1-104-396-11	ELECT	10uF	20%	16V
C113	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C115	1-104-400-21	ELECT	47uF	20%	4V
C116	1-164-346-11	CERAMIC CHIP	1uF		16V
C117	1-164-346-11	CERAMIC CHIP	1uF		16V
C118	1-163-023-00	CERAMIC CHIP	0.015uF	10%	50V
C119	1-104-400-21	ELECT	47uF	20%	4V
C120	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C123	1-104-402-11	ELECT	220uF	20%	4V
C124	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C127	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C129	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-126-153-11	ELECT	22uF	20%	6.3V
C602	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C603	1-126-153-11	ELECT	22uF	20%	6.3V
		< JACK >			
CN101	1-580-372-41	JACK, DC (POLARITY UNIFIED TYPE)			(DC IN 3V)
		< DIODE >			
D102	8-719-062-18	LED SHR17D-TNBO (BATT)			
		< IC >			
IC101	8-759-339-54	IC NJM-2128M-TE2			
IC601	8-759-804-43	IC LA5521M			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J101	1-785-791-11	JACK (EAR)			
		< JUMPER RESISTOR >			
JC1	1-216-295-00	SHORT	0		
JC2	1-216-295-00	SHORT	0		
JC3	1-216-295-00	SHORT	0		
JC4	1-216-296-00	SHORT	0		
JC5	1-216-296-00	SHORT	0		
JC6	1-216-296-00	SHORT	0		
JC7	1-216-296-00	SHORT	0		
JC8	1-216-296-00	SHORT	0		
JC9	1-216-296-00	SHORT	0		
JC10	1-216-296-00	SHORT	0		
JC11	1-216-296-00	SHORT	0		
JC12	1-216-296-00	SHORT	0		
JC13	1-216-295-00	SHORT	0		
JC14	1-216-295-00	SHORT	0		
JC15	1-216-295-00	SHORT	0		
JC16	1-216-296-00	SHORT	0		
JC17	1-216-296-00	SHORT	0		
		< RESISTOR >			
R101	1-216-037-00	METAL CHIP	330	5%	1/10W
R102	1-216-073-00	METAL CHIP	10K	5%	1/10W
R103	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R104	1-216-121-00	RES,CHIP	1M	5%	1/10W
R105	1-216-009-00	RES,CHIP	22	5%	1/10W
R106	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R107	1-216-218-00	RES,CHIP	6.8K	5%	1/8W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-234-00	RES,CHIP	33K	5%	1/8W
R110	1-216-077-00	METAL CHIP	15K	5%	1/10W
R111	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R112	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R113	1-216-045-00	METAL CHIP	680	5%	1/10W
R114	1-216-013-00	METAL CHIP	33	5%	1/10W
R115	1-216-037-00	METAL CHIP	330	5%	1/10W
R116	1-216-194-00	METAL CHIP	680	5%	1/8W
R121	1-216-009-00	RES,CHIP	22	5%	1/10W
R122	1-216-190-00	RES,CHIP	470	5%	1/8W
R123	1-216-089-00	RES,CHIP	47K	5%	1/10W
R124	1-216-057-11	RES,CHIP	2.2K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R125	1-216-041-11	METAL CHIP	470	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R129	1-216-021-00	METAL CHIP	68	5%	1/10W
R601	1-216-041-11	METAL CHIP	470	5%	1/10W
R602	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R603	1-216-033-00	METAL CHIP	220	5%	1/10W
R604	1-216-085-00	METAL CHIP	33K	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-089-00	RES,CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-225-435-11	RES, VAR, CARBON 50K (VOL)			
RV601	1-223-586-11	RES, ADJ, CARBON 10K			
RV602	1-238-663-11	RES, ADJ, CARBON 4.7K			
		< SWITCH >			
S101	1-771-673-11	SWITCH, SLIDE (REC/PB)			
S102	1-572-688-11	SWITCH, PUSH (1 KEY) (POWER)			
S601	1-572-922-11	SWITCH, SLIDE (PAUSE)			
S602	1-692-298-11	SWITCH, SLIDE (TAPE SPEED)			
		< THERMISTOR (POSITIVE) >			
THP601	1-810-552-11	THERMISTOR, POSITIVE			
THP602	1-810-794-11	THERMISTOR, POSITIVE			
**********					
		MISCELLANEOUS			
		**********			
HRPE901	1-500-593-11	HEAD, CERAMIC (REC/PB/ERASE)			
M901	1-698-533-11	MOTOR, DC (CAPSTAN/REEL) (including PULLY)			
MIC901	1-542-386-11	MICROPHONE, ELECTRET CONDENSER (MIC)			
SP901	1-505-384-11	SPEAKER (3.6cm)			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
	3-865-285-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (US)			
	3-865-285-21	MANUAL, INSTRUCTION (SPANISH) (MX)			
	3-865-285-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,ITALIAN) (AEP)			
	3-865-285-41	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,ITALIAN,PORTUGUESE) (AEP,E)			
	3-865-285-51	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH,FINNISH) (AEP)			
	3-866-171-21	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE,HUNGARIAN, RUSSIAN) (EE)			
	3-866-171-31	MANUAL, INSTRUCTION (TRADITIONAL CHINESE,KOREAN, POLISH,CZECH) (EE)			
	3-866-171-41	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE) (1E)			

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